



Hydrogen Therapy

Sixty-three disease models and human diseases for which beneficial effects of hydrogen have been documented.

Diseases

Species

Administration

Brain

Cerebral Infarction

Rodent, Human

Gas, Saline

Cerebral Superoxide Production

Rodent

Water

Restraint-Induced Dementia

Rodent

Water

Alzheimer's Disease	Rodent	Saline
Senile Dementia in Senescence-Accelerated mice	Rodent	Water
Parkinson's Disease	Rodent	Water
Hemorrhagic Infarction	Rodent	Gas
Brain Trauma	Rodent	Gas
Carbon Monoxide Intoxication	Rodent	Saline
Transient Global Cerebral Ischemia	Rodent	Gas
Deep Hypothermic Circulatory Arrest-Induced Brain Damage	Rodent	Saline
Surgically Induced Brain Injury	Rodent	Gas

Spinal Cord

Spinal Cord Injury	Rodent	Saline
Spinal Cord Ischemia / Reperfusion	Rabbit	Gas

Eye

Glaucoma	Rodent	Instillation
Corneal Alkali-Burn	Rodent	Instillation

Ear

Hearing Loss	Rodent	Water
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Lung

Oxygen-Induced Lung Injury	Rodent	Saline
Lung Transplantation	Rodent	Gas
Paraquat-Induced Lung Injury	Rodent	Saline
Radiation-Induced Lung Injury	Rodent	Water
Burn-Induced Lung Injury	Rodent	Saline
	Rodent	

Intestine

Intestinal Ischemia / Reperfusion-Induced Lung Injury Rodent Saline

Heart

Acute Myocardial Infarction Rodent Gas, Saline

Cardiac Transplantation Rodent Gas

Sleep Apnea-Induced Cardiac Hypoxia Rodent Gas

Liver

Schistosomiasis-Associated Chronic Liver Inflammation Rodent Gas

Liver Ischemia / Reperfusion Rodent Gas

Hepatitis Rodent Intestinal Gas

Obstructive Jaundice Rodent Saline

Carbon Tetrachloride-Induced Hepatopathy Rodent Saline

Radiation-Induced Adverse Effects for Liver Tumors Human Water

Kidney

Cisplatin-Induced Nephropathy Rodent Gas, Water

Hemodialysis Human Dialysis solution

Kidney Transplantation Rodent Water

Renal Ischemia / Reperfusion Rodent Saline

Melamine-Induced Urinary Stone Rodent Water

Chronic Kidney Disease Rodent Water

Pancreas

Acute Pancreatitis Rodent Saline

Intestine

Intestinal Transplantation Rodent Gas, Saline

Ulcerative Colitis	Rodent	Gas
Intestinal Ischemia / Reperfusion	Rodent	Saline
Blood Vessel		
Atherosclerosis	Rodent	Water
Muscle		
Inflammatory and Mitochondrial Myopathies	Human	Water
Cartilage		
NO-Induced Cartilage Toxicity	Cells	Gas
Metabolism		
Diabetes Mellitus Type I	Rodent	Water
Diabetes Mellitus Type II	Human	Water
Metabolic Syndrome	Human, Rodent	Water
Diabetes / Obesity	Rodent	Water
Perinatal Disorders		
Neonatal Cerebral Hypoxia	Rodent, Pig	Gas, Saline
Preeclampsia	Rodent	Saline
Inflammation / Allergy		
Type I Allergy	Rodent	Water
Sepsis	Rodent	Gas
Zymosan-Induced Inflammation	Rodent	Gas
LPS / IFN γ -Induced NO Production	Cells	Gas

Cancer

Growth of Tongue Carcinoma Cells

Cells

Gas

Lung Cancer Cells

Cells

Gas

Radiation-Induced Thymic Lymphoma

Rodent

Saline

Others

UVB-Induced Skin Injury

Rodent

Bathing

Decompression Sickness

Rodent

Saline

Viability of Pluripotent Stromal Cells

Cells

Gas

Radiation-Induced Cell Damage

Cells

Gas

Oxidized Low Density Lipoprotein-Induced Cell Toxicity

Cells

Gas

High Glucose-Induced Oxidative Stress

Cells

Gas